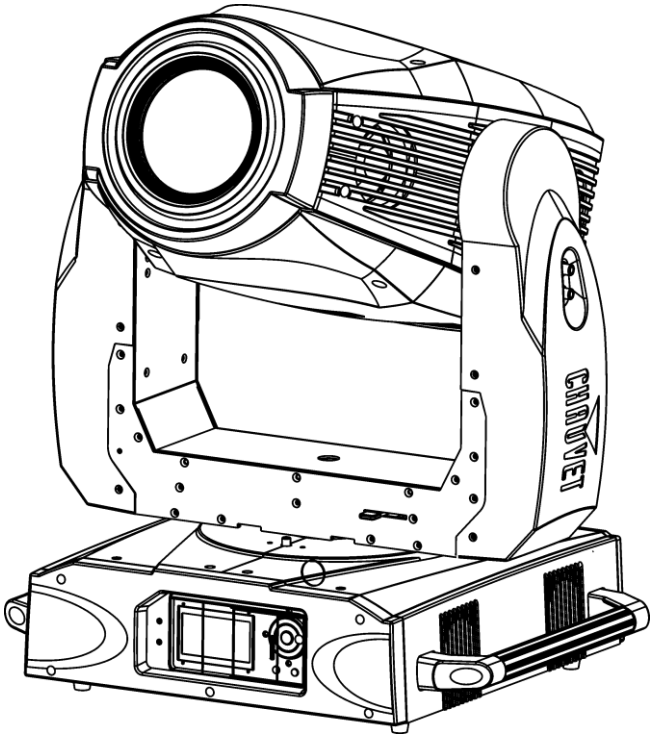
Legend 1200E SPOT™

User Manual



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Edition Notes

CHAUVET released this edition of the Legend™ 1200E Spot User Manual Rev. 02c in July 2009.

The Legend™ 1200E Spot User Manual Rev. 02c covers the description, safety precautions, installation, programming and maintenance of the CHAUVET Legend™ 1200E Spot lighting fixture.

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Intended Audience

CHAUVET provides The Legend™ 1200E Spot User Manual Rev. 02c with each Legend™ 1200E Spot fixture. Any person in charge of installing, operating and/or maintaining the Legend™ 1200E Spot fixture should read this manual in its entirety before installing, operating or maintaining the fixture.

CHAUVET Publications Hot Line

If you have any comments about the accuracy of this document or general suggestions regarding how we can improve it, please call us at (800) 762-1084 (US callers) or +1-954-929-1115 (international callers), ext. 43.

The latest versions of all CHAUVET manuals are available at CHAUVET's web site (www.chauvetlighting.com).

Document Revision

The Legend™ 1200E Spot User Manual Rev. 02c supersedes all previous versions.

Please discard all older versions of this manual.

Fixture at a Glance

Use on Dimmer	⊘	Auto Programs	⊘
Outdoor Use	⊘	Autoswitching Power Supply	✓
Sound Activated	⊘	Replaceable Fuse	✓
DMX	✓	User Serviceable	⊘
Master/Slave	⊘	CMY Color Mixing	✓

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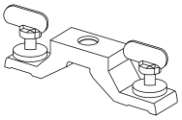
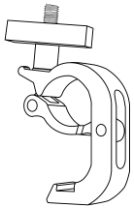
1. Before You Begin

What is Included

- 1 x Legend™ 1200E Spot
- 2 x Omega Brackets with hanging trigger clamps
- 1 x Warranty Card
- 1 x User Manual



Omega Bracket



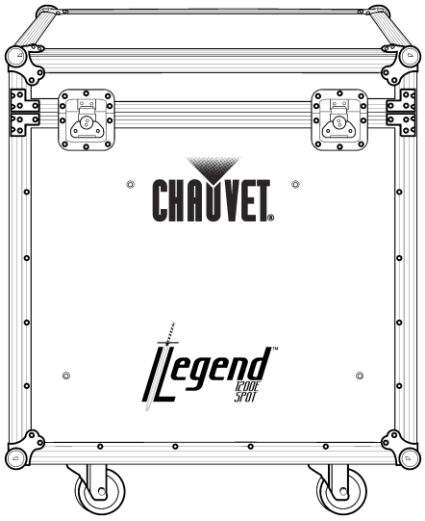
Hanging Trigger clamp

Unpacking Instructions

This product ships in a flight case.

Immediately upon receiving the fixture, carefully examine the flight case; check the contents to ensure that all parts are present, and have been received in good condition. If any parts appear damaged from shipping or the carton itself shows signs of mishandling, notify the shipper immediately and retain the packing material for inspection.

Save all packing materials because, in the event that you have to return the fixture to the factory, you may return it in its original factory flight case.



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Text Conventions

CHAUVET manuals use the following text conventions, whether within the regular text or inside tables.

CONVENTION	MEANING
1~512	A range of values
50/60	A set of mutually exclusive values in the text
[10]	A DIP switch to be configured
<SET>	A key to be pressed on the fixture's control panel
Settings	A menu option that can be selected but not modified
MENU > Settings	A sequence of menu options to be followed
[1~10]	A range of menu values of which one can be selected
Yes/No	A set of mutually exclusive menu options to choose
ON	A value to be entered or selected

Icons

CHAUVET manuals use the following icons to indicate information that requires special attention on the part of the user.

ICONS	MEANING
	This paragraph contains critical installation, configuration or operation information. Failure to comply with this information may render the fixture partially or completely inoperative, cause damage to the fixture or cause harm to the user.
	This paragraph contains important installation or configuration information. Failure to comply with this information may prevent the fixture from functioning correctly.
	This paragraph reminds you of useful, although not critical, information.

Safety Instructions

Please read the following instructions carefully because they include important safety information about the installation, usage, and maintenance of this product.

There are no user serviceable parts inside the unit. Any reference to unit servicing you may find from now on in this User Manual will only apply to properly CHAUVET certified technicians. Do not open the housing or attempt any repairs unless you are one of them.

In the event that your unit may require service, please contact CHAUVET at (954) 923-3680.

- Keep this manual for future consultation. If you sell the fixture to another user, make sure that they also receive this manual.
- Always make sure that you are connecting the fixture to the proper voltage, as per the specifications in this manual or on the fixture.
- Always disconnect the fixture from the power source before servicing.
- This product is for indoor use only! To prevent risk of fire or shock, do not expose fixture to rain or moisture.
- Make sure there are no flammable materials close to the fixture while operating.
- Always secure the fixture to a fastening device using a safety chain.
- Maximum ambient temperature (Ta) is 104° F (40° C). Do not operate the fixture at a higher temperature.
- In the event of a serious operating problem, stop using the fixture immediately!
- Never connect this fixture to a dimmer pack.
- Make sure the power cord is not crimped or damaged.
- Never disconnect the power cord by pulling or tugging on the cord.
- Avoid direct eye exposure to the light source while it is on.

Please refer to all applicable local codes and regulations for proper installation of this fixture.

2. Introduction

Features

- 23 or 31-channel USITT DMX512-A moving yoke
- Pan: 540º in 2.8 sec/tilt: 270º in 1.6 sec
- Color wheel
  - 7 colors + white
    - Red, pink, green, magenta, orange, UV, and blue
  - Split/linear colors
  - Rainbow color spin at variable speeds
- Indexed, rotating gobo wheel with gobo shake
  - 6 glass, slot-n-lock gobos + open
    - 2 Multicolor, 4 B/W
  - Gobo wheel spin at variable speeds
  - 16-bit gobo rotation
- Indexed, rotating gobo wheel with gobo shake
  - 6 glass, slot-n-lock gobos + open
    - 1 Multicolor, 5 B/W
  - Gobo wheel spin at variable speeds
  - 16-bit gobo rotation
- Variable frost
- Variable CTC filter (3200 K)
- CMY color mixing system with vector speed adjustments
- 3-facet, 5-facet, 3D and infinite prism with macros
- Variable shutter
- Variable iris
- Variable focus
- Variable 16-bit dimming (0~100%)
- Linear zoom (15º~30º)
- Individual reset of pan/tilt, color, gobo, shutter, prism, focus
- Move-in-black for pan/tilt, color, gobo
- Remote fixture reset, lamp on/off and vector control speed adjustments
- Built-in movement macros with range adjustments
- Built-in color macros

Additional Features

- 3-pin and 5-pin DMX connections
- 2 additional free glass gobos
- User-configurable lamp ignition delay
- User-configurable maintenance reminder
- Electronic ballast with power factor correction
- Electronic power supply
- Automatic pan & tilt correction
- Pan & tilt locks
- Lamp & fixture use timers
- Power saver mode

Description

The Legend™ 1200E Spot is a moving yoke fixture with a 1200 W short arc discharge lamp.

It contains an LCD control panel (display) through which all of the settings can be set/modified.

An electronic ballast and power supply provide power to the lamp and electronics of the fixture.

This fixture operates at 200~240 VAC, 50/60 Hz. There is no internal power selection switch/terminal. It uses an autoswitching power supply and electronic ballast with power factor correction.

23 DMX Channel Mode 1

The DMX 23 channel mode (Basic) provides 16-bit resolution for the Pan/Tilt functions, and 8-bit resolution for the gobos and prism/effect wheels.

31 DMX Channel Mode 2

The DMX 31 channel mode (Advanced) provides 16-bit resolution for the Pan/Tilt functions, and 16-bit resolution for the gobos and prism/effect wheels, and dimmer. This also includes additional channels for pan/tilt movement macros, CMY/CTO Speed, and color macros & presets

DMX Channel Summary

23 Channel Mode

Channel	Attribute
1	Pan
2	Pan fine
3	Tilt
4	Tilt fine
5	Pan/tilt speed
6	Dimmer
7	Shutter
8	Color
9	Cyan
10	Magenta
11	Yellow
12	3200 K (CTO) Filter

Channel	Attribute
13	Gobo 1
14	Gobo 1 rotation
15	Gobo 2
16	Gobo 2 rotation
17	Focus
18	Zoom
19	Effect/prism
20	Effect/prism rotation
21	Iris
22	Frost
23	Function

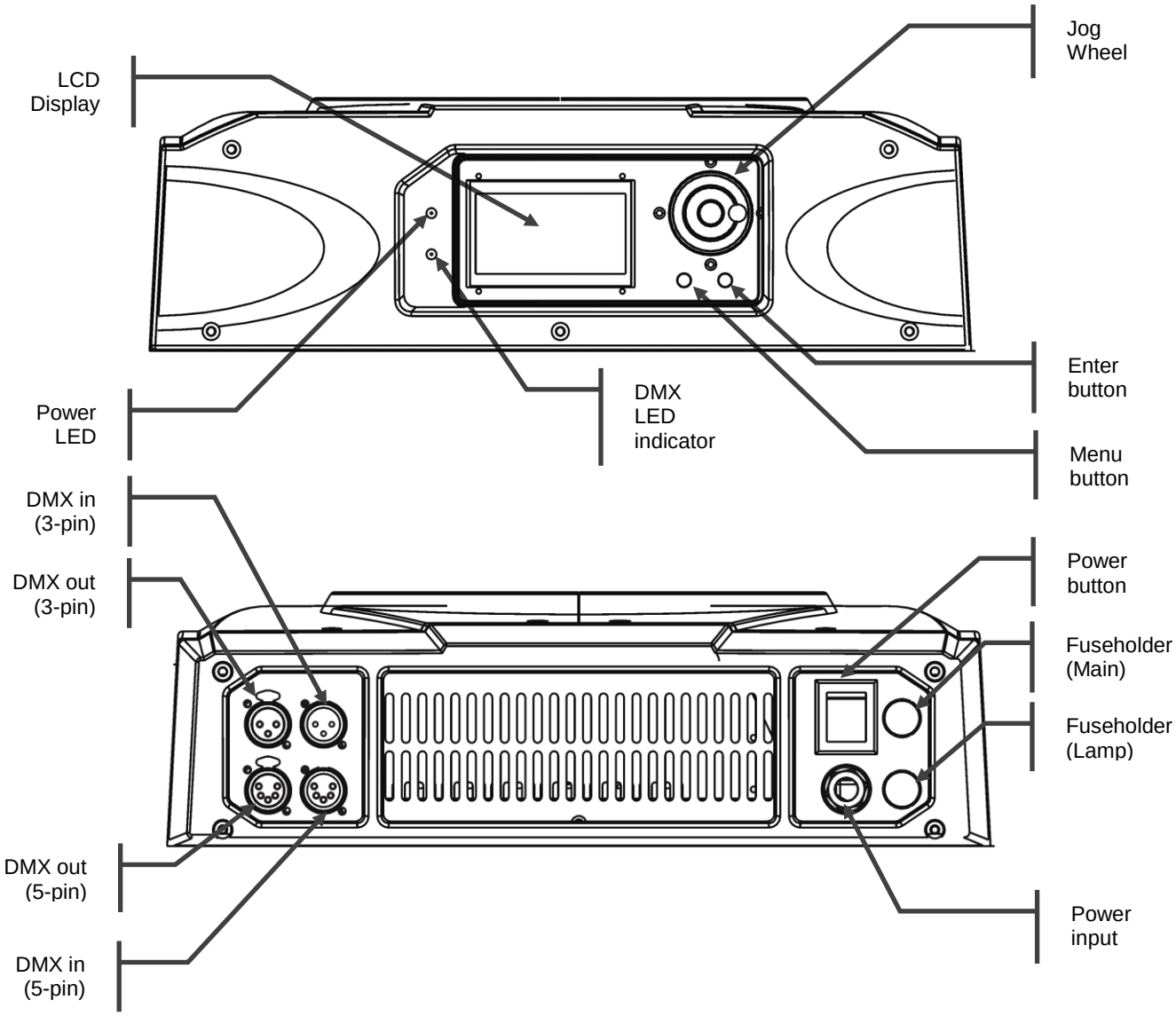
31 Channel Mode

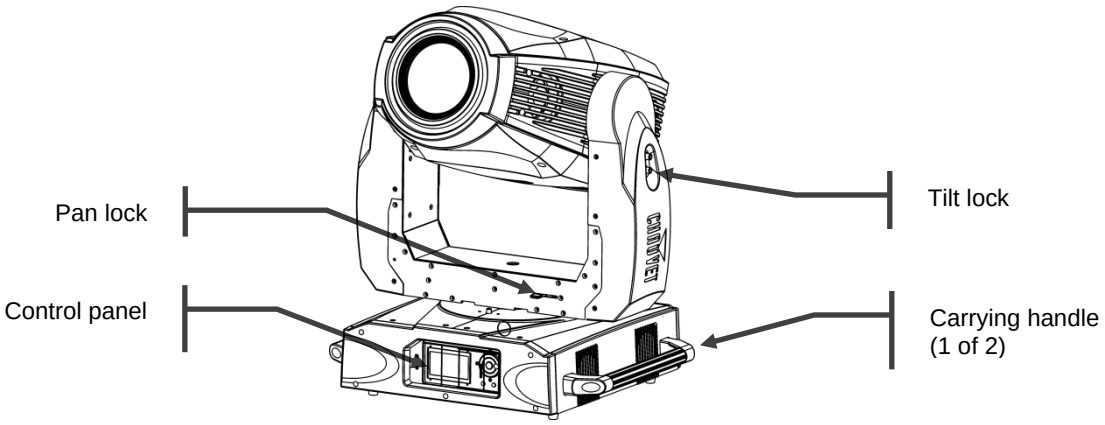
Channel	Attribute
1	Pan
2	Pan fine
3	Tilt
4	Tilt fine
5	Pan/tilt speed
6	Dimmer
7	Dimmer fine
8	Shutter
9	Color
10	Cyan
11	Magenta

Channel	Attribute
12	Yellow
13	3200K (CTO)
14	CMY/CTO Filter Speed
15	Gobo 1
16	Gobo 1 rotation
17	Gobo 1 rotation fine
18	Gobo 2
19	Gobo 2 rotation
20	Gobo 2 rotation fine
21	Focus
22	Zoom

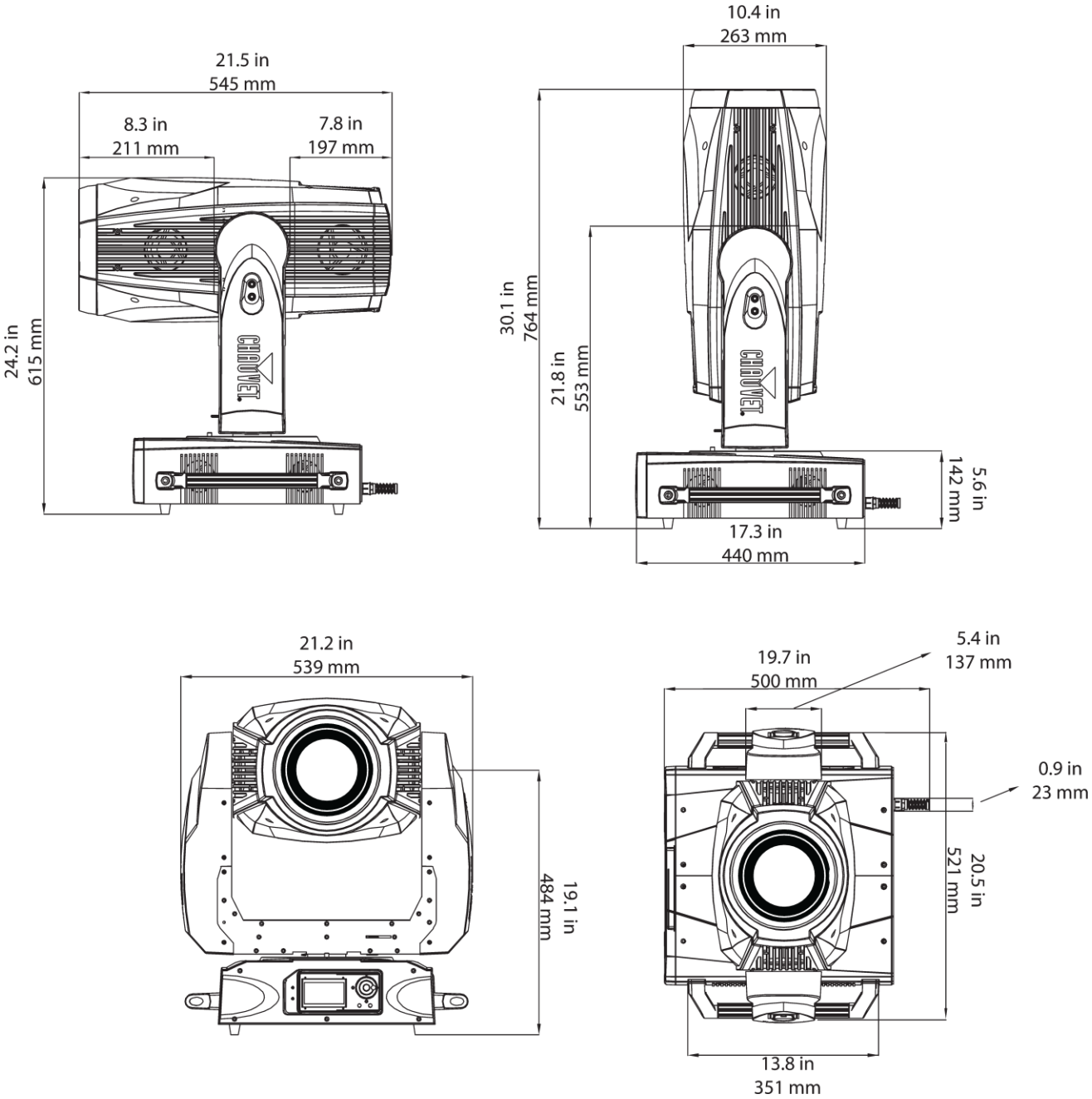
Channel	Attribute
23	Effect/prism
24	Effect/prism rotation
25	Iris
26	Frost
27	Pan/tilt Movement macro
28	Pan/tilt Movement macro range
29	Preset Color
30	Color macro (CMY)
31	Function

Product Overview





Product Dimensions



3. Setup

AC Power

This fixture has an auto-switching power supply that can work with an input voltage range of 200~240 VAC, 50/60 Hz.

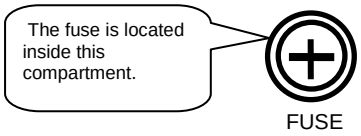
Always connect the fixture to a protected circuit with an appropriate electrical ground to avoid the risk of electrocution or fire.

To determine the power requirements for a particular fixture, see the label affixed to the back plate of the fixture or refer to the fixture's specifications chart. A fixture's listed current rating indicates its average current draw under normal conditions.

Never connect the fixture to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

Fuse Replacement

1. With a Phillips #2 screwdriver, unscrew the fuse holder from its housing.
2. Remove the damaged fuse from its holder and replace with exact same type and rating fuse.
3. Screw the fuse holder back in its place and reconnect power.



Disconnect the power cord before replacing the fuse and always replace it with a fuse of the same type and rating.

Fixture Linking

If using multiple DMX compatible fixtures, it is possible to control them individually with a single DMX controller or to run them synchronized in a master/slave operating mode. DMX compatible fixtures use a serial data link between them. The connection between fixtures follows a daisy chain pattern (the DMX output of a fixture connects to the DMX input of the next fixture, and so on).

When using a DMX controller, the combined number of channels required by all the fixtures on the serial data link determines the number of fixtures the DMX controller can support.

To comply with the EIA-485 standard, which is the base for the DMX standard, do not connect more than 32 fixtures without using a DMX optically-isolated splitter. Doing otherwise may result in deterioration of the digital DMX signal.

Data Cabling

You must use DMX compliant data cables to link two or more DMX compatible fixtures together. You may purchase CHAUVET certified DMX cables directly from a dealer/distributor or construct your own cable.

USITT recommends limiting the total length of the DMX cable (from the first fixture/controller to the last fixture) to 300 ~ 455 m (985 ~ 1,500 ft).

If you choose to create your own cable, make sure to use data-grade cables that can carry a high frequency signal and are less prone to electromagnetic interference. Use a Belden© 9841 or equivalent cable, which meets the specifications for EIA RS-485 applications.

Do not use standard microphone cables for DMX applications because they cannot transmit DMX data reliably over long distances.

DMX Data Cable

The data cable must have the following characteristics:

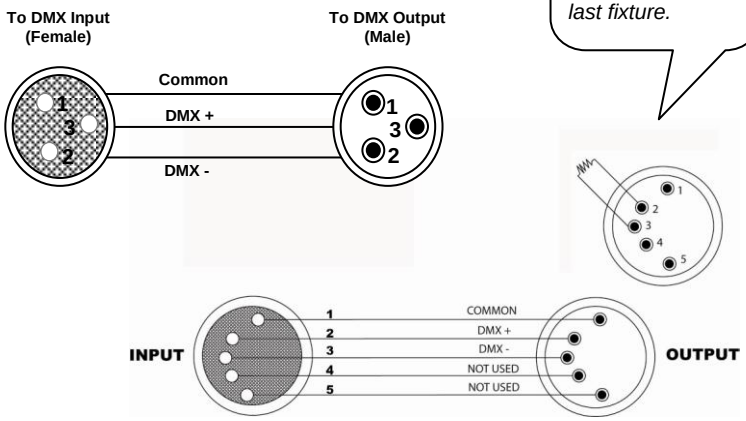
Type:	*shielded, 2-conductor twisted pair*
Maximum capacitance between conductors:	*30 pF/ft*
Maximum capacitance between conductor and shield:	*55 pF/ft*
Maximum resistance:	*20 ohms/1000 ft*
Nominal impedance:	*100 ~ 140 ohms*

DMX Cable Connectors

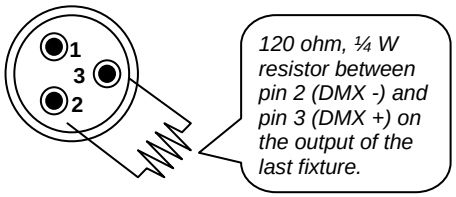
Each DMX cable must have a male, 3 or 5-pin XLR connector on one end and a female, 3 or 5-pin XLR connector on the other end.

120 ohm ¼ W resistor between pin 2 (DMX -) and pin 3 (DMX +) on the output of the last fixture.

DMX Connector Configuration



To avoid signal transmission problems and interference, it is always advisable to connect a DMX signal terminator, as seen below.



Test all DMX cables with an ohmmeter to verify their correct polarity and to make sure that there are no short-circuits between any of the pins, or between any pin and ground. If the Common wire touched the chassis ground, a ground loop could form, which may cause the fixture to perform erratically.

3-Pin to 5-Pin Conversion Chart

It may be necessary to use a 3-pin to 5-pin adapter. Please see the chart below for further explanation.

3-PIN TO 5-PIN CONVERSION CHART

Conductor	3-Pin Female (Output)	5-Pin Male (Input)
Ground/Shield	Pin 1	Pin 1
Data (-) signal	Pin 2	Pin 2
Data (+) signal	Pin 3	Pin 3
Not used		Pin 4
Not used		Pin 5

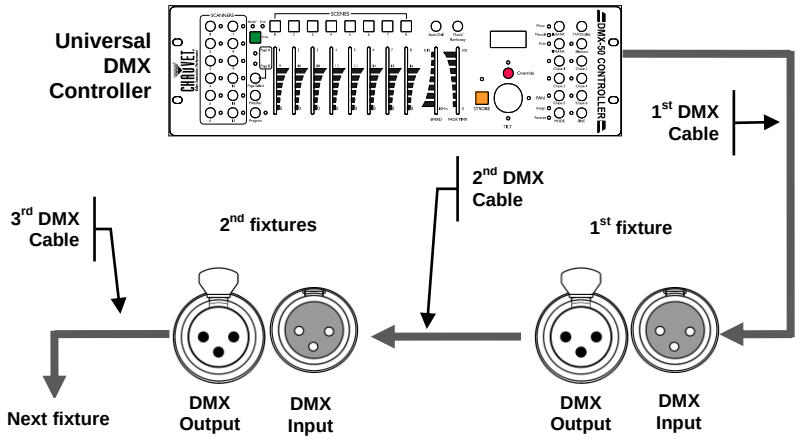
You may use the 3-pin input with the 5-pin output. You may also use 5-pin input with the 3-pin output. However, you may NOT use both the 3-pin and the 5-pin outputs simultaneously.

DMX Data Connection

The fixture uses the DMX data connection for its DMX 23 & 31 Channel modes. See the "Introduction" chapter for a description of the two DMX Channel modes and the "Operation Instructions" chapter to learn how to configure the fixture appropriately for this mode.

1. Connect the male connector of the first DMX cable to the DMX Output connector (female) of the DMX controller.
2. Connect the, female connector of the first DMX cable coming from the controller to the DMX Input connector (male) of the first fixture.
3. Connect the male connector of the second DMX cable to the DMX Output connector (female) of the first fixture.
4. Connect the female connector of the second DMX cable coming from the first fixture to the DMX Input connector of the second fixture.
5. Continue linking the other fixtures in the same way.

DMX Data Connection Diagram



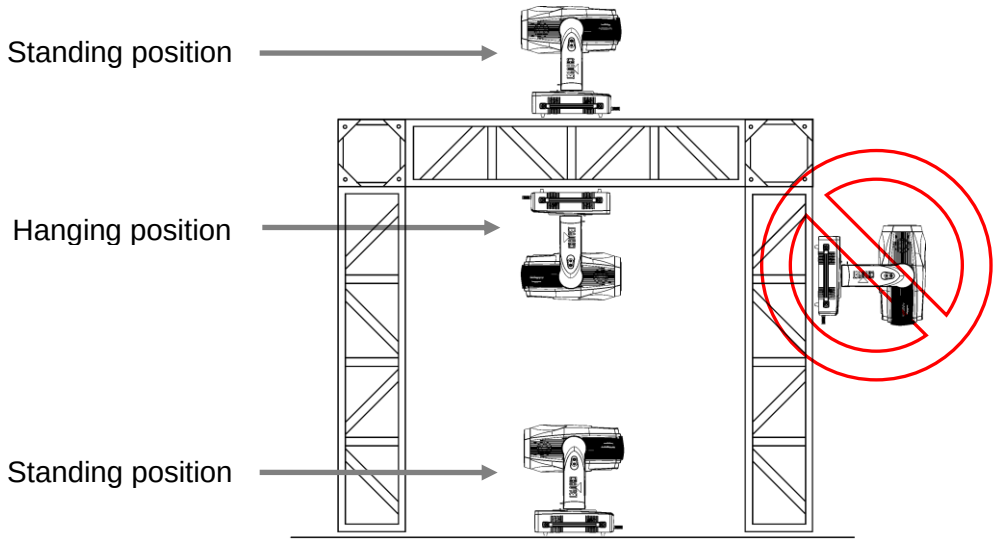
CHAUVET Certified DMX Data Cables

Order Code	Description
DMX1.5	DMX Cable 1.5 m/4.9 ft
DMX4.5	DMX Cable 4.5 m/14.8 ft
DMX10	DMX Cable 10 m/32.8 ft

Mounting

Orientation

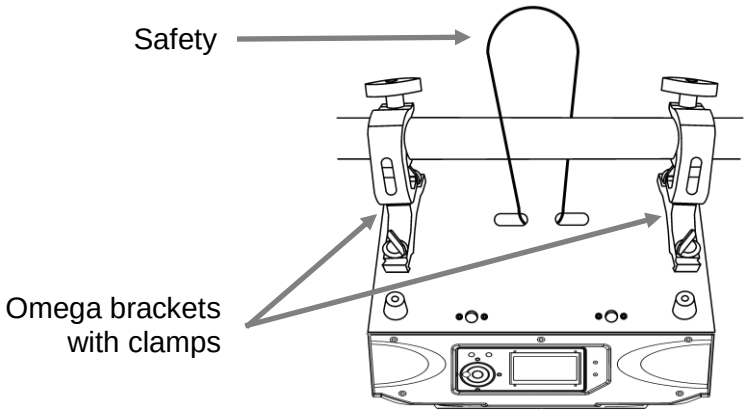
Only mount this fixture in a horizontal position, either hanging or standing, as indicated in the diagram below. Be sure that there is adequate room for ventilation and for the pan/tilt motion of the fixture. Doing otherwise may void this fixture's warranty and cause damage to the fixture.



Rigging

The Legend™ 1200E Spot ships in a flight case specially designed to fit the fixture. There are two omega brackets with clamps included in the flight case.

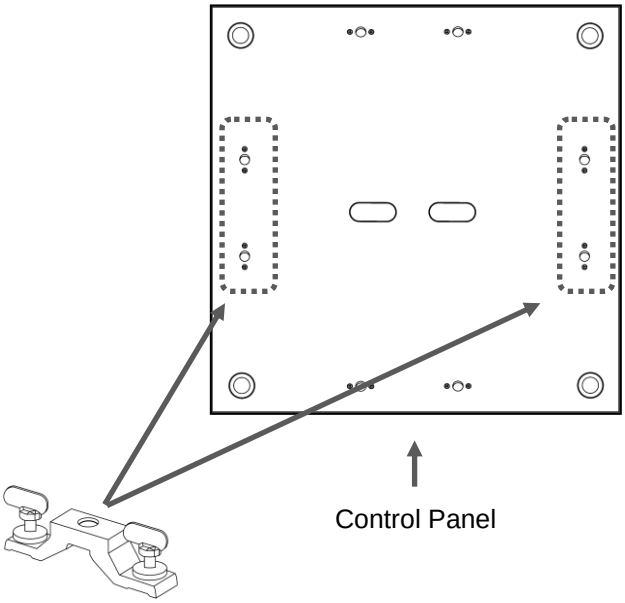
- When selecting an installation location, consider ease of access to the fixture for operation, lamp replacement, programming adjustment(s) and routine maintenance.
- Never mount the fixture in places where rain, high humidity, extreme temperature changes or restricted ventilation may affect it.
- Make sure that the location where you are mounting the fixture can support its weight. Please see the "Technical Specifications" section of this manual for the weight requirement of this fixture.



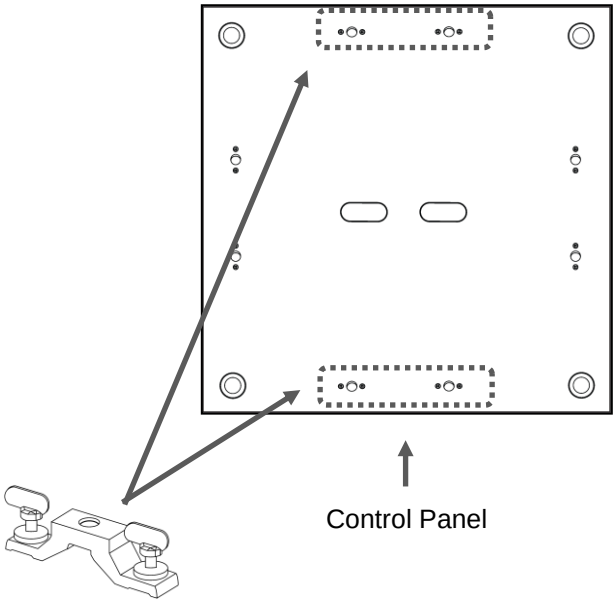
Orientation (bracket installation)

The brackets in this fixture may be mounted on either side of the mounting plate, thus allowing for a 90° rotation of the fixture. Please see the diagram below for further explanation.

Location 1



Location 2



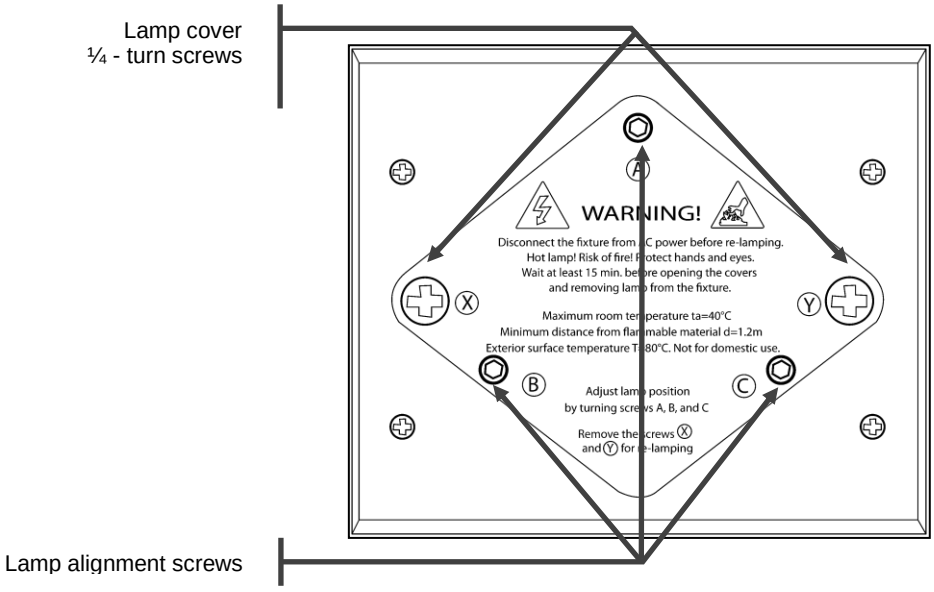
Lamp

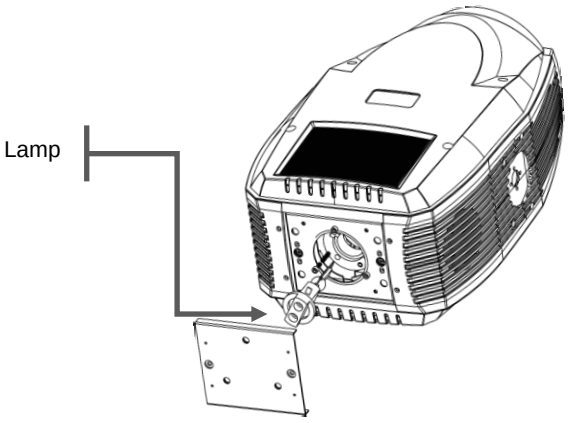
When replacing the lamp, please wait at least 15 minutes after powering down to allow the unit to cool! More time may be necessary.

Always disconnect from main power prior to lamp replacement.

Do not touch the envelope (glass area) of the bulb with bare hands. If this happens, clean the lamp with isopropyl alcohol and wipe it with a lint free cloth before installation.

You should use cotton or latex gloves to avoid from touching the lamp envelope with your bare hands.


Lamp cover
¼ - turn screws
WARNING!
Disconnect the fixture from AC power before re-lamping.
Hot lamp! Risk of fire! Protect hands and eyes.
Wait at least 15 min. before opening the covers
and removing lamp from the fixture.
Maximum room temperature ta=40°C
Minimum distance from flammable material d=1.2m
Exterior surface temperature T=80°C. Not for domestic use.
Adjust lamp position
by turning screws A, B, and C
Remove the screws Ⓧ
and Ⓨ for re-lamping
A
B
C
X
Y
Lamp alignment screws



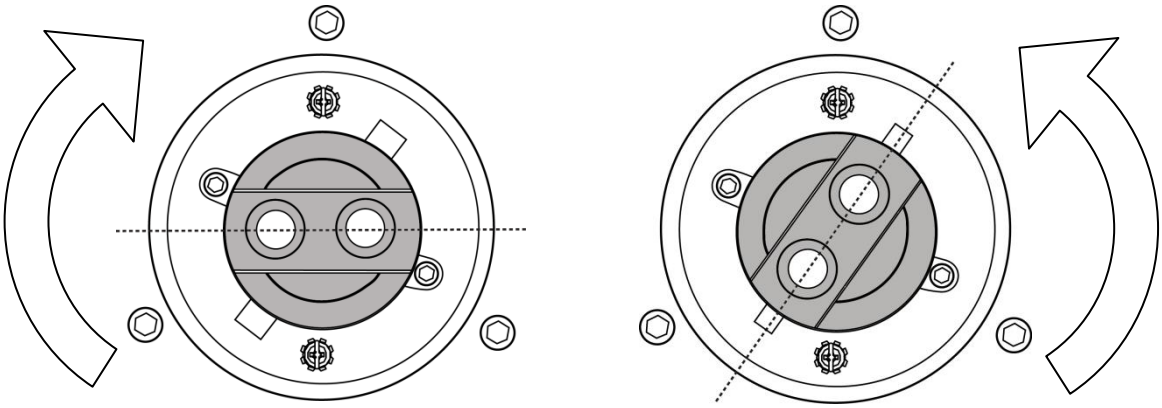
Lamp Installation

The lamp in this fixture is not common and requires specific installation procedures. Please see the diagram, along with the set of instructions, below for further explanation.

1. Disconnect power from the fixture and allow it to cool.
2. Lock the head of the fixture.
3. Unscrew the two ¼ - turn screws (X & Y) to open the rear lamp cover (this will remain attached via a rotating arm).
4. If you are replacing a lamp, you will need to remove the old lamp from the fixture. Using your thumb and forefinger, grasp the ceramic base of the lamp and turn it 45° counterclockwise to the unlocked position. Then, pull it straight out of the fixture, being careful not to touch the sides of the reflector or housing.
5. The lamp base has two metal contacts, one narrow and one wide, which fit into the corresponding narrow and wide slots in the lamp holder. Align the new lamp with these slots in the lamp holder, and slide the lamp into the fixture until the contacts are fully inserted. Using your thumb and forefinger, grasp the ceramic base of the lamp and turn it 45° clockwise to the locked position.
6. Close the rear lamp cover, and tighten the two ¼ - turn screws (X & Y).
7. After installing a new lamp, reset the lamp hour counter (see “Menu Map” for the menu option to perform this reset).

You should use cotton or latex gloves to avoid from touching the lamp envelope with your bare hands.

Locked **Unlocked**



Maximizing the Life of Your Lamp

To ensure the longest and most efficient use of the lamp, always wait between 10~15 min before re-applying power after a shutdown. Failure to do so could result in premature aging of the lamp and failure of the electronics that drive it.

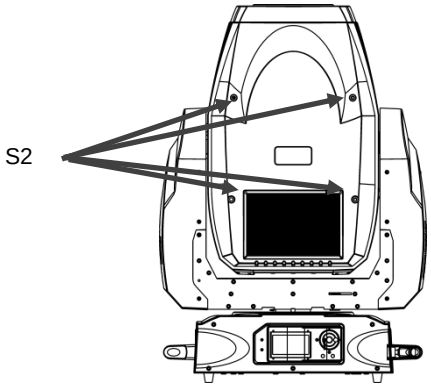
Never turn off the power to the unit while the lamp is striking. Always wait 15 min after powering on the fixture before powering it down. Turning off the lamp during striking may permanently damage the lamp.

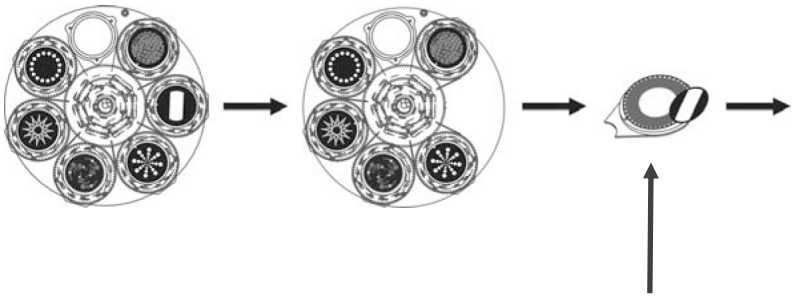
Replacing Gobos

This fixture comes with slot-n-lock gobo wheels for easy gobo replacement/installation. Please see the diagram, along with the set of instructions, below for further explanation.

1. Unscrew the four ¼- turn screws (S2) to detach the front cover.
2. Remove the slot-n-lock gobo single assembly. Using your thumb and forefinger, grasp the slot-n-lock gobo assembly and remove it from the gobo wheel.
3. Using a small prying tool, remove the gobo tension ring and remove it from the gobo aperture.

Push the gobo with your finger from the back side following the same direction that the tension ring was removed.





slot-n-lock gobo
single assembly

You should use cotton or latex gloves to avoid from touching the gobos with your bare hands.

The tension ring could pop out abruptly and fall inside the fixture. Use caution when removing it and, if necessary, use both hands.

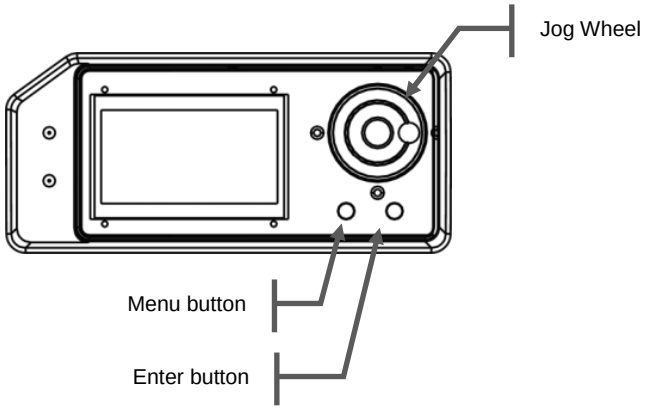
Replace the slot-n-lock prism(s) on the prism/effect wheel using the same method as the rotating gobo wheel.

4. Operating Instructions

Navigating the Control Panel

Access the control panel functions using the two panel buttons located directly to the right of the LCD Display. Please see the chart, diagram, and set of instructions, below for further explanation.

Button	Function
<MENU>	Used to access the menu or to return to a previous menu option
<ENTER>	Used to select and store the current menu option within a menu
<JOG WHEEL>	Used to scroll through the menu options, and to modify the value of a setting



The Control Panel LCD Display shows the menu items you select from the “menu map” section. When a menu function is selected, the display will show the first available option for the selected menu function.

To select a menu item, press **<ENTER>**.

Press **<MENU>** repeatedly until the home screen is displayed. Press **<MENU>** one more time. This is the top of the menu map.

Use the **<JOG WHEEL>** to navigate the menu map and menu options.

Press **<ENTER>** to access the menu function currently displayed or to enable a menu option.

To return to the previous option or menu without changing the value, press **<MENU>**.

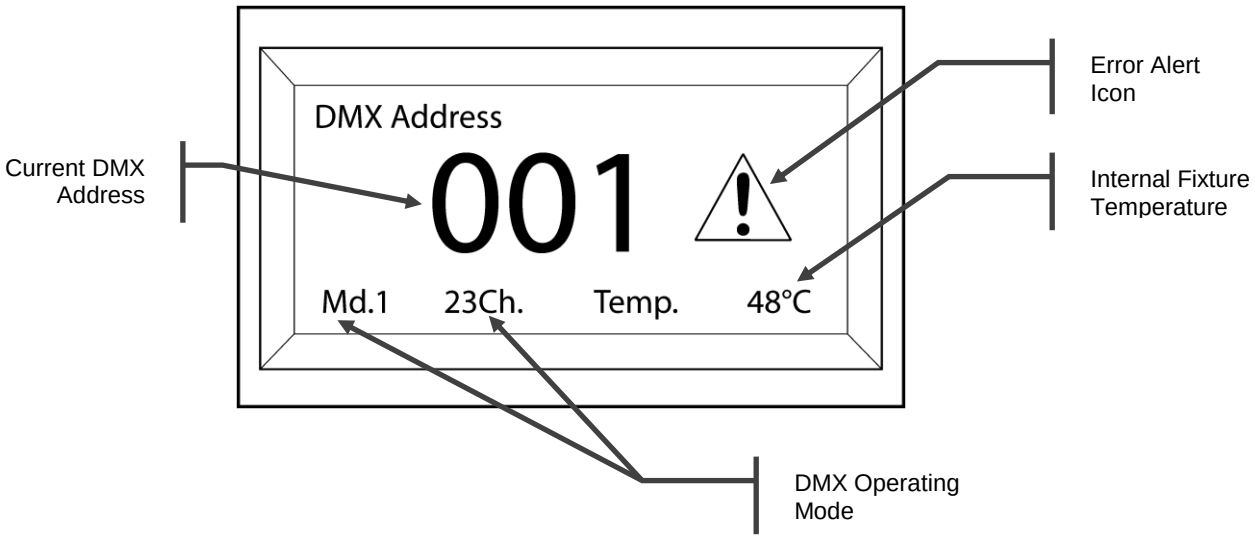
Menu Map

Main Function	Sub Function	Selection	Instruction
DMX Functions	DMX Address	1~512	DMX starting address assignment
	DMX Channel Mode	Mode 1 (23)	Operating mode: Basic
		Mode 2 (31)	Operating mode: Advanced
	View DMX Value		View the DMX input values (only from the starting address through the last channel of the mode (23/31)
Fixture Settings	Pan Inverse	Yes/No	Inverts the Pan operation from 540 ~ 0
	Tilt Inverse	Yes/No	Inverts the Tilt operation from 270 ~ 0
	Bl.o. P/T Moving	Yes/No	Enables Blackout while pan/tilt moving
	Bl.o. Color Change	Yes/No	Enables Blackout while Color moving
	Bl.o. Gobo Change	Yes/No	Enables Blackout while Gobo moving
	Auto Focus	Yes/No	Enables auto focus while zooming narrow/wide
Lamp Settings	On/Off	On/Off	Manual Control of the lamp state
	State/Power On	On/Off	Automatically strikes the lamp upon powering on the fixture
	Off Via DMX	Yes/No	Allows remote Lamp Off commands to be received via DMX
	On if DMX On	Yes/No	Strikes the lamp if DMX is present
	Off if DMX Off	Yes/No	Turns off the lamp if DMX is not present
	Cooling Mode	High	Maintains the fans at highest speed, regardless of lamp temperature
		Auto	Maintains the lowest (most silent), possible fan speed, according to the lamp temperature
	Ignition Delay	0s~255s	Delays striking the lamp to allow for lower inrush currents
	Low Power Delay	0s~255s	Sets the time activating delay between the shutter/dimmer closing and the lamp power reduction. The maximum delay is 255 seconds
Display Settings	Display Inverse	Yes/No	Inverts the display graphics 180°
	Back Light Auto Off	Yes/No	Turns off the backlight after several seconds of being idle
	Back Light Intensity	1~10	Sets the backlight intensity from dim to bright
	Temperature Unit	°C	Displays the temperature in Celsius
		°F	Displays the temperature in Fahrenheit
Fixture Test	Auto Test		Runs the fixture, testing each function in series
	Manual Test		Manually controls each function of the fixture directly from the control panel without a DMX controller; used for testing/troubleshooting purposes only
Fixture Information	Fixture use time		Displays the amount of time the fixture has been operating
	Lamp On Time	Exit	Exits this function
		Reset Time	Resets the lamp time (used when replacing the lamp in the fixture)
	Firmware Version		Displays the firmware version of each software chip
Reset Function	Pan & Tilt	Yes/No	Resets the pan & tilt, independent of the other motors
	Color	Yes/No	Resets the color wheel, CMY, & 3200 K (CTO) dichroic flags, independent of the other motors
	Gobo & Iris	Yes/No	Resets the gobo & iris, independent of the other motors
	Shutter & Dimmer	Yes/No	Resets the shutter & dimmer, independent of the other motors
	Focus & Zoom	Yes/No	Resets the focus & zoom, independent of the other motors
	Prism & Frost	Yes/No	Resets the prism & frost, independent of the other motors
	All	Yes/No	Resets all motors in the fixture simultaneously
Special Functions	Fixture Maintenance	Interval	User can set the custom time for this Warning message
		Remain Time	Shows the time remaining from the current interval user time
	Factory Settings	Yes/No	Resets all settings to the factory defaults, with the exception of the motor offset settings

Operation

Home Screen

By default, when the fixture is operating under normal circumstances, the display screen will list critical information. Please see the diagram, along with the set of instructions, below for further explanation.



DMX Operation

This is the explanation of how to setup the fixture to operate with a DMX controller. Please see the set of instructions below for further explanation.

1. Press **<MENU>.**
2. Select: ***DMX Functions>DMX Address>.***
3. Rotating the **<JOG WHEEL>,** select a DMX address.
4. Press **<ENTER>.**

Resetting the Fixture

If there is an operation error in this fixture, a fixture reset will often correct such a problem. Please see the set of instructions below for further explanation.

1. Press **<MENU>.**
2. Select: ***Fixture Test.***
3. Rotating the **<JOG WHEEL>,** select ***Manual Test*** or ***Auto Test.***
4. Press **<ENTER>.**

Factory Default Reset

You may reset all settings to the factory default from the LCD display. Please see the set of instructions below for further explanation.

1. Press **<MENU>.**
2. Select: ***Special Function<Factory Settings.***
3. Rotating the **<JOG WHEEL>,** select ***Yes*** or ***No***.
4. Press **<ENTER>.**

Please be aware that this action will cause all settings to revert to the state they were at when the fixture shipped from the manufacturer.

This will not affect the home position adjustments.

Lamp Dousing

Due to the extreme heat produced by the lamp, closing the shutters/dimmers for an extended period will cause a build-up of heat. However, a function in the fixture will automatically reduce the power to the lamp when the shutters/dimmers are closed. This will reduce the heat, and prolong the life of the fixture.

There is a time delay for which this feature will activate. Please see the set of instructions below for further explanation.

1. Press **<MENU>.**
2. Select: ***Lamp Settings>Low Power Delay.***
3. Rotating the **<JOG WHEEL>,** select 0~255s. This is the actual time delay.
4. Press **<ENTER>.**

Fixture Maintenance

This fixture has a user-selectable period for routine maintenance. This setting will cause an error alert icon to appear on the home screen. Please see the set of instructions below for further explanation.

1. Press **<MENU>.**
2. Select: ***Special Function>Fixture Maintenance>Interval.***
3. Rotating the **<JOG WHEEL>,** select the actual time delay.
4. Press **<ENTER>.**

Lamp Settings

You may modify several parameters for the lamp's on/off state as well as the lamp cooling. Please see the set of instructions below for further explanation.

Select: ***Lamp Settings>On/Off***
Manually control the current state of the lamp.

Select: ***Lamp Settings>State Power On***
When activated, the lamp will strike immediately upon the fixture receiving power, provided that there is no ignition delay applied.

Select: ***Lamp Settings>Off via DMX***
Allows remote Lamp Off through DMX.

Select: ***Lamp Settings>On if DMX On***
When activated, the fixture will attempt to strike the lamp when DMX is received by the fixture.

Select: ***Lamp Settings> Off if DMX Off***
When activated, the fixture will attempt to turn off the lamp when DMX is lost by the fixture.

Select: ***Lamp Settings> Cooling Mode> High***
Manually set fans to maximum cooling level.

Select: ***Lamp Settings> Cooling Mode> Auto***
Manually set fans to automatic cooling.

Select: ***Lamp Settings> Ignition Delay***
This will cause an ignition delay upon power up the fixture, if the State Power On option is activated.

Menu Map *(Cont.)*

Home position Adjustment

The “home position” is the location the fixture finds during the reset (home) process. This is commonly known as electronic adjustment.

This is a hidden menu in the fixture. If the home position of one of the motors becomes misaligned, you can use this menu to realign/offset the function. Please see the chart, along with the set of instructions, below for further explanation.

1. Press **<MENU>** repeatedly until you reach the main menu. This includes any menu option in the leftmost column of the “Menu Map” section of this manual.
2. Press and hold **<ENTER>** for 5s until the screen reads ***Offset Menu.***
3. Scroll to the desired attribute using the **<JOG WHEEL>**.
4. Press **<ENTER>**.
5. Rotate the **<JOG WHEEL>** to adjust the home position of the selected attribute.
6. Once the position has been selected, press **<ENTER>**.
7. Press **<MENU>** repeatedly to back out of the function and return to the home screen.

The “home position” for each motor will change as the position is selected.

MAIN FUNCTION	INSTRUCTION
Pan	Pan motor offset
Tilt	Tilt motor offset
Shutter	Shutter motor offset
Color	Color motor offset
Cyan	Cyan dichroic flag motor offset
Magenta	Magenta dichroic flag motor offset
Yellow	Yellow dichroic flag motor offset
3200 K Filter	3200 K Filter dichroic flag motor offset
Gobo 1	Gobo wheel 1 motor offset
R-Gobo 1	Gobo wheel 1 rotation motor offset
Gobo 2	Gobo wheel 2 motor offset
R-Gobo 2	Gobo wheel 2 rotation motor offset
Iris	Iris motor offset
Prism	Prism/effect wheel motor offset
R-Prism	Prism rotation motor offset
Frost	Frost dichroic flag motor offset
Focus	Focus motor offset
Zoom	Zoom motor offset

Error Messages

When the error alert icon appears on the home screen, press <ENTER> to view the error information. Please see the chart below for further explanation.

Once an error has been resolved, you may perform a fixture reset to remove the message from the home screen.

MESSAGE	DESCRIPTION
Lamp Startup Fail	Failed to strike the lamp after 1 minute (1 attempt).
Lamp Hot Protection	The lamp has reached a temperature between 105° C and 109° C; the lamp will operate at half power while at these temperatures to attempt to bring the temperature to normal levels
Lamp Hot Power Off	The lamp has reached 110° C or higher, and has been turned off as a safety precaution
Maintenance Fixture	The user-selected time for maintenance has been reached
Fan1 Error	Fan 1 has malfunctioned
Fan2 Error	Fan 2 has malfunctioned
Fan3 Error	Fan 3 has malfunctioned
Fan4 Error	Fan 4 has malfunctioned
Fan5 Error	Fan 5 has malfunctioned
Fan6 Error	Fan 6 has malfunctioned
CPU-B Error	Communication malfunction with CPU-B
CPU-C Error	Communication malfunction with CPU-C
CPU-D Error	Communication malfunction with CPU-D
CPU-E Error	Communication malfunction with CPU-E
CPU-F Error	Communication malfunction with CPU-F
CPU-G Error	Communication malfunction with CPU-G
CPU-H Error	Communication malfunction with CPU-H
Pan Home Sensor Error	The pan has failed to reset/home properly; check sensor, magnet, or pan lock
Pan Encode Error	The pan encoding/optical sensor has malfunctioned
Tilt Home Sensor Error	The tilt has failed to reset/home properly; check sensor, magnet, or tilt lock
Tilt Encode Error	The tilt encoding/optical sensor has malfunctioned
Color 1 Reset Fail	The color wheel has failed to reset/home
Cyan Reset Fail	The dichroic shutter for cyan has failed to reset/home
Magenta Reset Fail	The dichroic shutter for magenta has failed to reset/home
Yellow Reset Fail	The dichroic shutter for yellow has failed to reset/home
3200K Filter Reset Fail	The dichroic shutter for 3200 K CTO Filter has failed to reset/home
Gobo 1 Reset Fail	The Gobo wheel 1 has failed to reset/home
R-Gobo 1 Reset Fail	The Gobo wheel 1 rotation has failed to reset/home
Gobo 2 Reset Fail	The Gobo wheel 2 has failed to reset/home
R-Gobo Reset Fail	The Gobo wheel 2 rotation has failed to reset/home
Iris Reset Fail	The motorized iris has failed to reset/home
Effect Reset Fail	The effect/prism wheel has failed to reset/home
R-Effect Reset Fail	The effect/prism rotation has failed to reset/home
Frost Reset Fail	The frost filter has failed to reset/home
Focus Reset Fail	The focus has failed to reset/home
Zoom Reset Fail	The zoom has failed to reset/home
Memory Initial Reset Fail	Memory malfunction or miscommunication; chip: 24C256
Temperature Sense Fail	The temperature sensor is not responding
Lamp On Over 700 Hour	The lamp has been operating for over 700 hours, please consult the lamp manufacturer's rating for the lamp. This can be reset in the control panel of the fixture

DMX Channel Values

23 channel mode (Basic)

Channel	Value	Function
1		**Pan**
	000 ⇔ 255	0 ⇔ 540
2	000 ⇔ 255	**Pan fine**
3		**Tilt**
	000 ⇔ 255	0 ⇔ 270
4	000 ⇔ 255	**Tilt fine**
5		**Pan/tilt Speed**
	000 ⇔ 255	Fast ⇔ slow
6		**Dimmer**
	000 ⇔ 255	0% ⇔ 100%
7		**Shutter**
	000 ⇔ 007	Closed
	008 ⇔ 015	Open
	016 ⇔ 131	Shutter (slow ⇔ fast)
	132 ⇔ 167	Slow open ⇔ fast closed (slow ⇔ fast)
	168 ⇔ 203	Slow closed ⇔ fast open (slow ⇔ fast)
	204 ⇔ 239	Slow open ⇔ slow closed (slow ⇔ fast)
	240 ⇔ 247	Random Strobe
	248 ⇔ 255	Open
8		**Color**
	000 ⇔ 007	Open (white)
	008 ⇔ 015	Red
	016 ⇔ 023	Blue
	024 ⇔ 031	Pink
	032 ⇔ 039	Green
	040 ⇔ 047	Yellow
	048 ⇔ 055	Orange
	056 ⇔ 063	UV Purple
	064 ⇔ 127	Split Colors
	128 ⇔ 189	Clockwise rotation (fast ⇔ slow)
	190 ⇔ 193	Stop
	194 ⇔ 255	Counter-clockwise rotation (slow ⇔ fast)
9		**Cyan**
	000 ⇔ 255	0% ⇔ 100%
10		**Magenta**
	000 ⇔ 255	0% ⇔ 100%
11		**Yellow**
	000 ⇔ 255	0% ⇔ 100%
12		**3200 K/CTO Filter**
	000 ⇔ 255	0% ⇔ 100%
13		**Gobo 1**
	000 ⇔ 009	Open (white)
	010 ⇔ 019	Gobo 1
	020 ⇔ 028	Gobo 2
	029 ⇔ 038	Gobo 3
	039 ⇔ 047	Gobo 4
	048 ⇔ 057	Gobo 5
	058 ⇔ 067	Gobo 6
	068 ⇔ 077	Gobo 1 shake
	078 ⇔ 087	Gobo 2 shake
	088 ⇔ 097	Gobo 3 shake
	098 ⇔ 107	Gobo 4 shake
	108 ⇔ 117	Gobo 5 shake
	118 ⇔ 127	Gobo 6 shake
	128 ⇔ 189	Counter-clockwise rotation (fast ⇔ slow)
	190 ⇔ 193	Stop
	194 ⇔ 255	Clockwise rotation (slow ⇔ fast)
14		**Gobo 1 rotation**
	000 ⇔ 127	Gobo indexing
	128 ⇔ 189	Clockwise rotation (fast ⇔ slow)
	190 ⇔ 193	Stop
	194 ⇔ 255	Counter-clockwise rotation (slow ⇔ fast)

Channel	Value	Function
15		**Gobo 2**
	000 ⇔ 009	Open (white)
	010 ⇔ 019	Gobo 7
	020 ⇔ 028	Gobo 8
	029 ⇔ 038	Gobo 9
	039 ⇔ 047	Gobo 10
	048 ⇔ 057	Gobo 11
	058 ⇔ 067	Gobo 12
	068 ⇔ 077	Gobo 7 shake
	078 ⇔ 087	Gobo 8 shake
	088 ⇔ 097	Gobo 9 shake
	098 ⇔ 107	Gobo 10 shake
	108 ⇔ 117	Gobo 11 shake
	118 ⇔ 127	Gobo 12 shake
	128 ⇔ 189	Clockwise rotation (fast ⇔ slow)
	190 ⇔ 193	Stop
	194 ⇔ 255	Counter-clockwise rotation (slow ⇔ fast)
16		**Gobo 2 rotation**
	000 ⇔ 127	Gobo indexing
	128 ⇔ 189	Counter-clockwise rotation (fast ⇔ slow)
	190 ⇔ 193	Stop
	194 ⇔ 255	Clockwise rotation (slow ⇔ fast))
17		**Focus**
	000 ⇔ 255	Narrow ⇔ wide
18		**Zoom**
	000 ⇔ 255	15° ⇔ 30°
19		**Effect/prism**
	000 ⇔ 025	Open
	026 ⇔ 050	Effect 1
	051 ⇔ 076	Effect 2
	077 ⇔ 101	Effect 3
	102 ⇔ 127	Effect 4
	128 ⇔ 255	Effect Macro 1 ⇔ 24
20		**Effect/prism rotation**
	000 ⇔ 127	Gobo indexing
	128 ⇔ 189	Clockwise rotation (fast ⇔ slow)
	190 ⇔ 193	Stop
	194 ⇔ 255	Counter-clockwise rotation (slow ⇔ fast)
21		**Iris**
	000 ⇔ 255	100% ⇔ 0%
22		**Frost**
	000 ⇔ 179	0% ⇔ 100%
	180 ⇔ 201	Slow open ⇔ fast closed (slow ⇔ fast)
	202 ⇔ 223	Slow closed ⇔ fast open (slow ⇔ fast)
	224 ⇔ 245	Slow closed ⇔ slow open (slow ⇔ fast)
	246 ⇔ 255	Frost effect
23		**Function**
	000 ⇔ 009	No function
	010 ⇔ 019	Auto focus (enable)
	020 ⇔ 029	Auto focus (disable)
	030 ⇔ 039	Fan speed (auto)
	040 ⇔ 049	Fan speed (high)
	050 ⇔ 069	No function
	070 ⇔ 079	Pan/tilt move-in-black (enable)
	080 ⇔ 089	Pan/tilt move-in-black (disable)
	090 ⇔ 099	Color move-in-black (enable)
	100 ⇔ 109	Color move-in-black (disable)
	110 ⇔ 119	Gobo move-in-black (enable)
	120 ⇔ 129	Gobo move-in-black (disable)
	130 ⇔ 139	Lamp On
	140 ⇔ 149	Pan/tilt reset
	150 ⇔ 159	Color reset
	160 ⇔ 169	Gobo1/Gobo2/Iris reset
	170 ⇔ 179	Shutter reset
	180 ⇔ 189	Focus/zoom reset
	190 ⇔ 199	Frost/effect reset
	200 ⇔ 209	Reset all
	210 ⇔ 219	Pan/tilt/color/gobo move-in-black (enable)
	220 ⇔ 229	Pan/tilt/color/gobo move-in-black (disable)
	230 ⇔ 239	Lamp off
	240 ⇔ 255	No function

31 channel mode (Advanced)

Channel	Value	Function
1	000 ⇔ 255	**Pan** 0 ⇔ 540
2	000 ⇔ 255	**Pan fine**
3	000 ⇔ 255	**Tilt** 0 ⇔ 270
4	000 ⇔ 255	**Tilt fine**
5	000 ⇔ 255	**Pan/tilt Speed** Fast ⇔ slow
6	000 ⇔ 255	**Dimmer** 0% ⇔ 100%
7	000 ⇔ 255	**Dimmer fine**
8	000 ⇔ 007 008 ⇔ 015 016 ⇔ 131 132 ⇔ 167 168 ⇔ 203 204 ⇔ 239 240 ⇔ 247 248 ⇔ 255	**Shutter** Closed Open Shutter (slow ⇔ fast) Slow open ⇔ fast closed (slow ⇔ fast) Slow closed ⇔ fast open (slow ⇔ fast) Slow open ⇔ slow closed (slow ⇔ fast) Random Strobe Open
9	000 ⇔ 007 008 ⇔ 015 016 ⇔ 023 024 ⇔ 031 032 ⇔ 039 040 ⇔ 047 048 ⇔ 055 056 ⇔ 063 064 ⇔ 127 128 ⇔ 189 190 ⇔ 193 194 ⇔ 255	**Color** Open (white) Red Blue Pink Green Yellow Orange UV Purple Split Colors Clockwise rotation (fast ⇔ slow) Stop Counter-clockwise rotation (slow ⇔ fast)
10	000 ⇔ 255	**Cyan** 0% ⇔ 100%
11	000 ⇔ 255	**Magenta** 0% ⇔ 100%
12	000 ⇔ 255	**Yellow** 0% ⇔ 100%
13	000 ⇔ 255	**3200 K (CTO) Filter** 0% ⇔ 100%
14	000 ⇔ 255	**CMY/CTO Speed** Fast ⇔ slow
15	000 ⇔ 009 010 ⇔ 019 020 ⇔ 028 029 ⇔ 038 039 ⇔ 047 048 ⇔ 057 058 ⇔ 067 068 ⇔ 077 078 ⇔ 087 088 ⇔ 097 098 ⇔ 107 108 ⇔ 117 118 ⇔ 127 128 ⇔ 189 190 ⇔ 193 194 ⇔ 255	**Gobo 1** Open (white) Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 1 shake Gobo 2 shake Gobo 3 shake Gobo 4 shake Gobo 5 shake Gobo 6 shake Counter-clockwise rotation (fast ⇔ slow) Stop Clockwise rotation (slow ⇔ fast)
16	000 ⇔ 127 128 ⇔ 189 190 ⇔ 193 194 ⇔ 255	**Gobo 1 rotation** Gobo indexing Clockwise rotation (fast ⇔ slow) Stop Counter-clockwise rotation (slow ⇔ fast)
17	000 ⇔ 255	**Gobo 1 rotation fine**
18	000 ⇔ 009 010 ⇔ 019 020 ⇔ 028 029 ⇔ 038 039 ⇔ 047 048 ⇔ 057 058 ⇔ 067 068 ⇔ 077 078 ⇔ 087 088 ⇔ 097 098 ⇔ 107 108 ⇔ 117 118 ⇔ 127 128 ⇔ 189 190 ⇔ 193 194 ⇔ 255	**Gobo 2** Open (white) Gobo 7 Gobo 8 Gobo 9 Gobo 10 Gobo 11 Gobo 12 Gobo 7 shake Gobo 8 shake Gobo 9 shake Gobo 10 shake Gobo 11 shake Gobo 12 shake Clockwise rotation (fast ⇔ slow) Stop Counter-clockwise rotation (slow ⇔ fast)
19	000 ⇔ 127 128 ⇔ 189 190 ⇔ 193 194 ⇔ 255	**Gobo 2 rotation** Gobo indexing Counter-clockwise rotation (fast ⇔ slow) Stop Clockwise rotation (slow ⇔ fast))
20	000 ⇔ 255	**Gobo 2 rotation fine**
21	000 ⇔ 255	**Focus** Narrow ⇔ wide
22	000 ⇔ 255	**Zoom** 15° ⇔ 30°
23	000 ⇔ 025 026 ⇔ 050 051 ⇔ 076 077 ⇔ 101 102 ⇔ 127 128 ⇔ 255	**Effect/prism** Open Effect 1 Effect 2 Effect 3 Effect 4 Effect Macro 1 ⇔ 24
24	000 ⇔ 127 128 ⇔ 189 190 ⇔ 193 194 ⇔ 255	**Effect/prism rotation** Gobo indexing Clockwise rotation (fast ⇔ slow) Stop Counter-clockwise rotation (slow ⇔ fast))
25	000 ⇔ 255	**Iris** 100% ⇔ 0%
26	000 ⇔ 179 180 ⇔ 201 202 ⇔ 223 224 ⇔ 245 246 ⇔ 255	**Frost** 0% ⇔ 100% Slow open ⇔ fast closed (slow ⇔ fast) Slow closed ⇔ fast open (slow ⇔ fast) Slow closed ⇔ slow open (slow ⇔ fast) Frost effect

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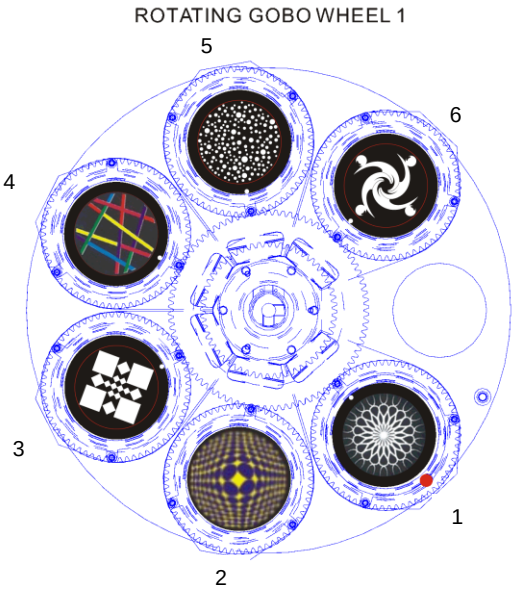
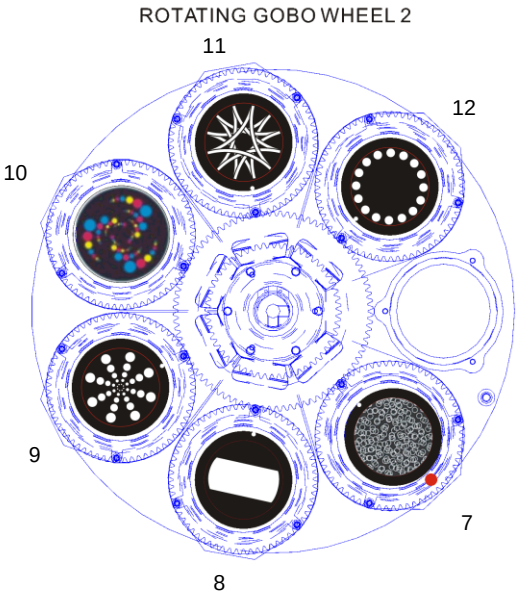
Channel	Value	Function
27		**Pan/tilt Macro (works in conjunction with CH.28)**
	000 ⇔ 007	Off
	008 ⇔ 015	Macro 1
	016 ⇔ 023	Macro 2
	024 ⇔ 031	Macro 3
	032 ⇔ 039	Macro 4
	040 ⇔ 047	Macro 5
	048 ⇔ 055	Macro 6
	056 ⇔ 063	Macro 7
	064 ⇔ 071	Macro 8
	072 ⇔ 079	Macro 9
	080 ⇔ 087	Macro 10
	088 ⇔ 095	Macro 11
	096 ⇔ 103	Macro 12
	104 ⇔ 111	Macro 13
	112 ⇔ 119	Macro 14
	120 ⇔ 127	Macro 15
	128 ⇔ 135	Macro 16
	136 ⇔ 143	Macro 17
	144 ⇔ 151	Macro 18
	152 ⇔ 159	Macro 19
	160 ⇔ 167	Macro 20
	168 ⇔ 175	Macro 21
	176 ⇔ 183	Macro 22
	184 ⇔ 191	Macro 23
	192 ⇔ 199	Macro 24
	200 ⇔ 207	Macro 25
	208 ⇔ 223	Macro 26
	224 ⇔ 231	Macro 27
	232 ⇔ 239	Macro 28
	240 ⇔ 247	Macro 29
	248 ⇔ 255	Macro 30
		Macro 31
28		**Pan/tilt Macro Range (works in conjunction with CH.27)**
	000 ⇔ 255	0% ⇔ 100%
29		**Preset Color**
	000 ⇔ 021	Open (white)
	022 ⇔ 042	Color 1
	043 ⇔ 063	Color 2
	064 ⇔ 085	Color 3
	086 ⇔ 106	Color 4
	107 ⇔ 127	Color 5
	128 ⇔ 148	Color 6
	149 ⇔ 170	Color 7
	171 ⇔ 191	Color 8
	192 ⇔ 212	Color 9
	213 ⇔ 233	Color 10
	234 ⇔ 255	Color 11
30		**Color Macro**
	000 ⇔ 007	Open
	008 ⇔ 028	Macro 1
	029 ⇔ 049	Macro 2
	050 ⇔ 069	Macro 3
	070 ⇔ 090	Macro 4
	091 ⇔ 110	Macro 5
	111 ⇔ 131	Macro 6
	132 ⇔ 152	Macro 7
	153 ⇔ 173	Macro 8
	174 ⇔ 194	Macro 9
	195 ⇔ 215	Macro 10
	216 ⇔ 235	Macro 11
	236 ⇔ 255	Macro 12

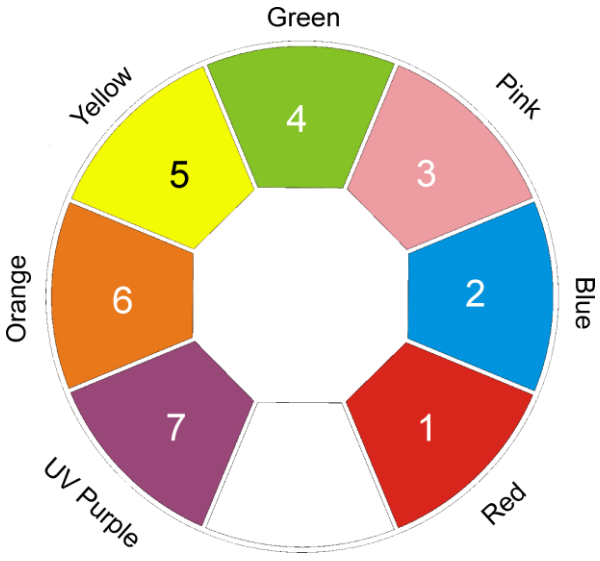
Channel	Value	Function
31		**Function**
	000 ⇔ 009	No function
	010 ⇔ 019	Auto focus (enable)
	020 ⇔ 029	Auto focus (disable)
	030 ⇔ 039	Fan speed (auto)
	040 ⇔ 049	Fan speed (high)
	050 ⇔ 069	No function
	070 ⇔ 079	Pan/tilt move-in-black (enable)
	080 ⇔ 089	Pan/tilt move-in-black (disable)
	090 ⇔ 099	Color move-in-black (enable)
	100 ⇔ 109	Color move-in-black (disable)
	110 ⇔ 119	Gobo move-in-black (enable)
	120 ⇔ 129	Gobo move-in-black (disable)
	130 ⇔ 139	Lamp On
	140 ⇔ 149	Pan/tilt reset
	150 ⇔ 159	Color reset
	160 ⇔ 169	Gobo1/Gobo2/Iris reset
	170 ⇔ 179	Shutter reset
	180 ⇔ 189	Focus/zoom reset
	190 ⇔ 199	Frost/effect reset
	200 ⇔ 209	Reset all
	210 ⇔ 219	Pan/tilt/color/gobo move-in-black (enable)
	220 ⇔ 229	Pan/tilt/color/gobo move-in-black (disable)
	230 ⇔ 239	Lamp off
	240 ⇔ 255	No function

Gobo wheel Layout





Color Wheel Layout



5. Technical Information

General Maintenance

To maintain optimum performance and minimize wear, the user should clean the fixtures frequently. Usage and environment are contributing factors in determining the cleaning frequency. As a rule, the user should clean the fixtures at least twice a month. Dust build up reduces light output performance and can cause overheating. This can lead to reduced lamp life and increased mechanical wear.

For fixtures containing external optical lenses, the user should clean them periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates. Damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics. Even in the cleanest type of surroundings, the user should clean the external optics at least once every 30 days. CHAUVET recommends cleaning the fixture's external optics with a soft cloth using normal glass cleaning fluid.

There is a recommended process for cleaning the fixture. Please see the set of instructions below for further explanation.

- Unplug fixture from power.
- Carefully use a vacuum or air compressor, along with a soft brush, to remove dust collected on external vents and internal components.
- Ensure the fixture is cool. Clean all external optics and glass surfaces with a mild solution of glass cleaner or isopropyl alcohol, using a soft, lint free cotton cloth or lens tissue.
- Apply solution directly to the cloth or tissue and drag dirt and grime to the outside of the lens.
- Gently polish the external glass surfaces until they are free of haze and lint.

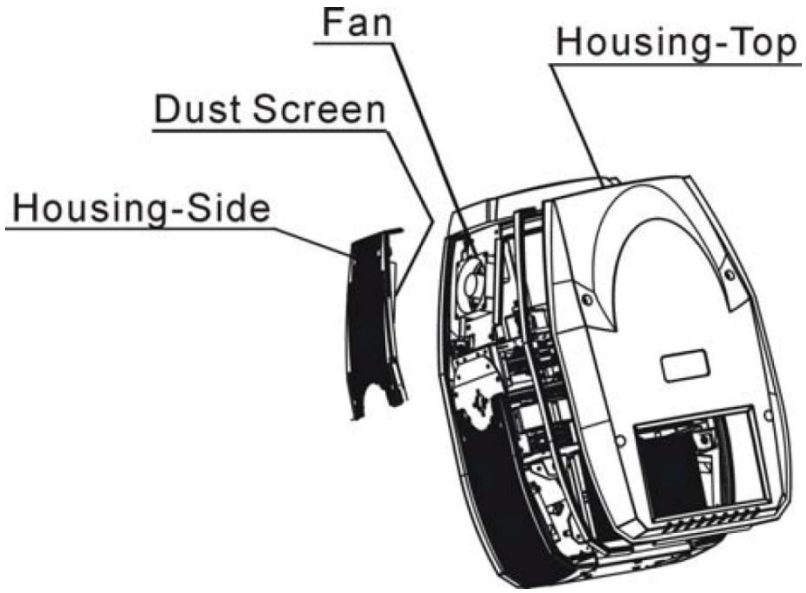
Always dry the external optics and glass surfaces carefully after cleaning them.

Never spin a fan using compressed air/vacuum.

Air Filter Cleaning

This fixture contains air filters to reduce dust and debris from building up on the internal components. Please see the diagram below for further explanation.

Although there are air filters present in the vents of this fixture, it is still necessary to perform regular maintenance of the internal components, on a regular interval. This includes the cleaning of the lenses and the dichroic filters.



Returns Procedure

The user must send the merchandise prepaid. CHAUVET will not issue call tags.

The user must clearly label the package with a Return Merchandise Authorization Number (RMA #). CHAUVET will refuse any product returned without an RMA #. Call CHAUVET and request an RMA # before shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return.

Be sure to pack the fixture properly. Any shipping damage resulting from inadequate packaging is the customer's responsibility. As a suggestion, the fixture should be returned in the original flight case.

CHAUVET reserves the right to use its own discretion to repair or replace returned product(s).

Once you are given an RMA #, please include the following information on a piece of paper inside the flight case:

- Your name
- Your address
- Your phone number
- The RMA #
- A brief description of the symptoms

Claims

Damage incurred in shipping is the responsibility of the shipper. Therefore, the customer must report any damage to the carrier upon receipt of merchandise. It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture appears damaged due to shipping. The customer must make claims for other issues, such as missing components or parts, damage not related to shipping, or concealed damage to CHAUVET within seven (7) days of receiving merchandise.

Contact Us

World Wide

General Information

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Technical Support

www.chauvetlighting.com
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fax: (954) 929-5560 (Attention: **Service**)

World Wide Web

www.chauvetlighting.com

Technical Specifications

WEIGHT & DIMENSIONS (OF FIXTURE)

Length.....21.2 in (539 mm)
Width.....21.5 in (545 mm)
Height .....30.1 in (764 mm)
Weight..... 82.05 lbs (37.22 kg)

For more detailed dimensions, please see the "Product Dimensions" section of this manual.

WEIGHT & DIMENSIONS (OF FIXTURE IN FLIGHT CASE)

Length.....25 in (635 mm)
Width.....28 in (711 mm)
Height .....35 in (889 mm)
Weight..... 191.05 lbs (86.22 kg)

POWER

Auto-ranging electronic power supply (w/PF correction)..... 200-255 VAC 50/60 Hz
Fuse.....F15 A 250 V 6 x 30 mm fast-blow
Power Consumption @ 200 V 50 Hz ..... 1,980 W (8.25 A) max
Inrush Power @ 200 V 50 Hz ..... 3.6 A
Power Factor @ 200 V 50 Hz.....0.93
Power Consumption @ 208 V 60 Hz ..... 1,641 W (7.89 A) max
Inrush Power @ 208 V 60 Hz ..... 3.4 A
Power Factor @ 208 V 60 Hz.....0.93
Power Consumption @ 220 V 50 Hz ..... 1,646 W (7.48 A) max
Inrush Power @ 220 V 50 Hz ..... 3.1 A
Power Factor @ 220 V 50 Hz.....0.93
Power Consumption @ 230 V 50 Hz ..... 1,645 W (7.15 A) max
Inrush Power @ 230 V 50 Hz ..... 3.3 A
Power Factor @ 230 V 50 Hz.....0.92
Power Consumption @ 240 V 50 Hz ..... 1,654 W (6.89 A) max
Inrush Power @ 240 V 50 Hz ..... 3.3 A
Power Factor @ 240 V 50 Hz.....0.91

LIGHT SOURCE

Type.....1200 W short arc discharge
Approved lamp.....Philips® MSR1200SA/SE FastFit™ 6300 K, 750 hrs
Socket..... PGJX50

PHOTO OPTIC

Zoom at minimum

Luminance @ 2 m ..... 19,400 lux
Beam Angle (zoom)..... 30°

Zoom at maximum

Luminance @ 2 m ..... 84,000 lux
Beam Angle (zoom)..... 15°

Measurement lamp used: Philips® MSR1200SA/SE FastFit™ 6300 K 750 hrs
Measurement conditions: 240 V, 60 Hz, no effects applied

CONTRUCTION

Ingress Protection IP20
Housing..... Self extinguishing ABS (meets CSA approval)
Color .....Black

RANGE

Pan ..... 540°
Tilt..... 270°

INSTALLATION

Mounting points.....two ¼-turn omega brackets
Orientation .....vertically pointing straight down (hanging)
.....straight up (sitting)
Minimum distance form illuminated surface .....100 in (2.5 m)
Minimum distance form combustible materials .....8 in (0.2 m)

GOBOS

Outside diameter.....1.47 in (37.3 mm)
Image diameter (maximum).....1.18 in (30 mm)
Max thickness .....0.196 in (5 mm)

PRISM/EFFECTS

Outside diameter	1.87 in (47.5 mm)
Image diameter (maximum)	1.8 in (45.5 mm)
Max thickness	0.275 in (7 mm)

THERMAL

Maximum ambient temperature	104° F (40° C)
Maximum surface temperature	135° F (57° C)

SOFTWARE VERSION INFORMATION

CPU-A	2.0
CPU-B	2.0
CPU-C	2.0
CPU-D	2.0
CPU-E	2.0
CPU-F	2.0
CPU-G	2.0
CPU-H	2.0
CPU-I	2.1

CONTROL & PROGRAMMING

Setting and addressing	Control panel with backlit graphic display
Receiver	Opto-isolated RS-485
Firmware updates	USB to DMX proprietary device
Data input (3-pin)	locking 3-pin XLR male socket
Data output (3-pin)	locking 3-pin XLR female socket
Data pin configuration (3-pin)	pin 1 shield, pin 2 (-), pin 3 (+)
Data input (5-pin)	locking 5-pin XLR male socket
Data output (5-pin)	locking 5-pin XLR female socket
Data pin configuration (5-pin)	pin 1 shield, pin 2 (-), pin 3 (+), pin 4+5 (not used)
Protocols	USITT DMX512-A
DMX Channels	23, 31

ORDERING INFORMATION

Legend™ 1200E Spot (ships with flight case)	LEGEND1200ESPOT

WARRANTY INFORMATION

Warranty	2-year limited warranty

6. Appendix

DMX Primer

The DMX method enables the use of a universal DMX controller device with DMX compatible fixtures. Each DMX connection has 512 channels and each DMX fixture uses a certain number of sequential DMX channels to provide control to its features.

Starting Address

For the DMX controller to identify each DMX fixture, they must have a unique starting address assigned to them. Defining the fixture's starting address consists of assigning one of the 512 DMX channels to the fixture's first channel. Once this assignment is complete, and based on the number of channels it uses, the fixture will react to the DMX signals sent to the range of DMX channels that starts with the starting address.

For example, a fixture that uses six DMX channels and its starting address is *100*, will accept DMX data sent by the DMX controller to channels 100, 101, 102, 103, 104, and 105.

Personalities

Most DMX fixtures use multiple personalities, each of them with a different number of channels, depending on its complexity. The number of DMX channels used by a fixture may vary from only one (dimmer control) to 15 or more. When the job does not require using all the fixture's capabilities, the user can select a more basic personality, thus allowing the DMX controller to accommodate more DMX fixtures.

Assigning Addresses

Because of the different number of DMX channels used by each fixture, assigning their starting addresses may become a difficult task. The user must assign the individual starting addresses to avoid the overlapping of the DMX Channels. If they do overlap, the affected fixtures could operate erratically.

However, the user can control multiple fixtures of the same type using the same starting address for all of them, as long as the intended result is that they operate in unison. In other words, the fixtures will be slaved together and they will all respond in exactly the same way.

DMX Fixture Connection

DMX fixtures receive DMX data through a Daisy Chain connection. In a Daisy Chain connection, the DATA OUT of one fixture or of the controller connects to the DATA IN of the next fixture. The order in which the fixtures are connected is not important and has no effect on how a controller communicates to each fixture. The user should always define an order that provides for the easiest and most direct cabling, however.

Each DMX fixture links to the other DMX fixtures and their controller using a DMX cable. A DMX cable consists of a shielded, two conductor twisted pair cable with one 3-pin or 5-pin XLR male connector on one end and a 3-pin or 5-pin XLR female connector on the other end. The shield connection is pin 1, while pin 2 is Data Negative (S-) and pin 3 is Data positive (S+). With 5-pin cables, pins 4+5 are not used. See page the "DMX Cable" section for details about this type of cable.

CHAUVET carries 3-pin XLR DMX compliant cables, DMX-10 (33'), DMX-4.5 (15') and DMX-1.5 (5')

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